

## > **IP-U-1L-CCWJ: ASTM GRADE CORROSION CELL 1L**

The **IP-U-1L-CCWJ** is a fully equipped, vertically mounted, and ASTM G59-97 grade jacketed corrosion cell set-up that can be used with any Potentiostat / Galvanostat / Impedance Analyzer in the world. Dedicated sample holders are provided to hold a circular, cylindrical, or flat coupons that can be easily mounted or replaced onto the cell in minutes. This set-up heavily suits the petroleum, automobile and other such industrial level corrosion labs that have a high through-put requirement for a very direct ASTM grade corrosion measurement for quality control, new inhibitor or coatings test, and plant safety. The construction provides thermal control, has dedicated ports for electrodes, pH / temperature probe and is also available in an optional jacketed 500 mL volume vessel. A specially designed long tube 12 mm dia Ag/AgCl reference electrode and a graphite rod 6mm dia / optional platinum plate counter electrodes are recommended for optional additional purchase.



**Available Volumes:** 500 mL, 1000 mL

**Sample holders:** The kit includes three different types of sample / coupon holders:

1. With button type sample holder for circular coupons: While the working electrode area is 1 cm<sup>2</sup> the outer diameter of the circular coupon is limited to less than 15 mm (Square – 11 mm x 11 mm) and its thickness limited to less than 5 mm.
2. With Clip type sample holder for flat coupons: While the working electrode area is defined by customer coupon with no limitation in L x W, thickness limited to less than 5 mm.
3. With thread type sample holder for cylindrical coupons: This is for cylindrical coupons having 3mm thread. Maximum dia. 15mm Maximum length 75mm

**Includes:** ASTM Grade Corrosion Cell Setup, 1L High quality glass jacketed vessel with necessary clamps, A disc type sample holder (PTFE), Button type sample holder, lugging capillary, Purge and Vent, Thread type sample holder (SS/PTFE), Silicon Tube 2 m, glass top (5 port type), a test sample coupon (SS) and all the other accessories for plug n play analysis.

### **Related Applications:**

- All types of ASTM based corrosion “measurements” for circular coupons.
- Non-ASTM grade research-based corrosion analysis on square or rectangular coupons.
- ASTM Critical Pitting Test with thermal control between 3 deg. C to 90 deg. C.

### **Ordering Information for Recommended Parts:**

- IP-U-1L-CCWJ: ASTM grade 1L Corrosion Cell Kit
- IP-U-Pt-C-250-L: Platinum Counter Electrode with Large Area (3.5 cm<sup>2</sup>)
- IP-AgCl-12: Long Type Reference Electrode
- IP-gra6-L: Graphite Rod Counter Electrode - Long (300 mm L; 6 mm Dia.)